

CLAIMS

We claim:

- 1 1. A method of sending messages in a distributed data processing network, the method
 2 comprising the steps of:
 3 (1) receiving a message that includes subject information having a plurality of
 4 portions, wherein the subject information is generated, based on one or more pre-selected
 5 portions, as the message is created; and
 6 (2) forwarding the message based on the subject information.
- 1 2. The method of claim 1 wherein the subject information is generated by the step of:
 2 appending a changeable portion to a fixed portion of the subject information.
- 1 3. The method of claim 2 further comprising the step of:
 2 modifying the changeable subject information's content when the message is created.
- 1 4. The method of claim 1 wherein the step of forwarding the message comprises the step of:
 2 guaranteeing delivery of the message to a subscriber registered to receive messages
 3 having the subject information.
- 1 5. The method of claim 1 wherein the step of forwarding the message comprises the step of:
 2 forwarding the message to one or more subscribers registered to receive messages having
 3 the subject information.
- 1 6. The method of claim 5 further comprising the step of:
 2 storing information relating to the one or more registered subscribers into a database.

7. The method of claim 6 further comprising the step of:
storing a copy of the database's content into a remote memory device.

8. The method of claim 1 further comprising the step of:
allowing a user to view the message's configuration information that includes a plurality
of subject elements.

9. The method of claim 8 further comprising the step of:
providing at least one of variable name and type to be a part of each of the plurality of
subject elements.

10. The method of claim 8 further comprising the step of:
allowing the user to publish a portion of the message determined by the configuration
information.

11. The method of claim 8 further comprising the step of:
allowing the user to include a part of the configuration information as a portion of the
subject information.

12. A message delivery system in a client-server environment, comprising:
a server configured to receive a message having a plurality of portions, wherein subject
information is generated, based on one or more pre-selected portions, as the message is created
and configured to forward the message based on the subject information.

13. The system of claim 12 further comprising a publisher client configured to generate the
subject information by appending a changeable portion to a fixed portion of the subject
information.

1 14. The system of claim 13 wherein the publisher client is further configured to modify the
2 changeable subject information's content when the message is created.

1 15. The system of claim 12 wherein the server is further configured to guarantee delivery of
2 the message to a subscriber registered to receive messages having the subject information.

1 16. The system of claim 12 wherein the server is further configured to forward the message
2 to one or more subscribers registered to receive messages having the subject information.

1 17. The system of claim 16 wherein the server is further configured to store information
2 relating to the one or more registered subscribers into a database.

1 18. The system of claim 17 further the server is further configured to store a copy of the
2 database's content into a remote memory device.

1 19. The system of claim 12 further comprising a meta-data server configured to allow a user
2 to view the message's configuration information that includes a plurality of subject elements.

1 20. The system of claim 19 wherein the meta-data server is further configured to provide at
2 least one of variable name and type to be a part of each of the plurality of subject elements.

1 21. The system of claim 19 wherein the meta-data server is further configured to allow the
2 user to publish a portion of the message determined by the configuration information.

1 22. The system of claim 19 wherein the meta-data server is further configured to allow the
2 user to include a part of the configuration information as a portion of the subject information.

23. A computer readable medium including instructions being executed by a system of computers, the instructions instructing the computer to execute an message delivery system, the instructions including:

(1) receiving a message that includes subject information having a plurality of portions, wherein the subject information is generated, based on one or more pre-selected portions, as the message is created; and

(2) forwarding the message based on the subject information.

24. The medium of claim 23 wherein the instructions further include:

guaranteeing delivery of the message to a subscriber registered to receive messages having the subject information.

25. The medium of claim 23 wherein the instructions further include generating the subject information by appending a changeable portion to a fixed portion of the subject information.

26. The medium of claim 25 wherein the instructions further include modifying the changeable subject information's content when the message is created.

27. The medium of claim 23 wherein the instructions further include forwarding the message by forwarding the message to one or more subscribers registered to receive messages having the subject information.

28. The medium of claim 27 wherein the instructions further include storing information relating to the one or more registered subscribers into a database.

29. The medium of claim 28 wherein the instructions further include storing a copy of the database's content into a remote memory device.

30. The medium of claim 23 wherein the instructions further include allowing a user to view the message's configuration information that includes a plurality of subject elements.

31. The medium of claim 30 wherein the instructions further include providing at least one of variable name, type and value to be a part of each of the plurality of subject elements.

32. The medium of claim 30 wherein the instructions further include allowing the user to publish a portion of the message determined by the configuration information.

33. The medium of claim 30 wherein the instructions further include allowing the user to include a part of the configuration information as a portion of the subject information.

34. A system of transmitting messages over a communication link, comprising:
 (1) means for receiving a message that includes subject information having a plurality of portions, wherein the subject information is generated, based on one or more pre-selected portions, as the message is created; and

(2) means for forwarding the message based on the subject information.

35. The system of claim 34 wherein the means for forwarding the message further comprises means for guaranteeing delivery of the message to a subscriber registered to receive messages having the subject information.

36. The system of claim 34 further comprising means for generating subject information by appending a changeable portion to a fixed portion of the subject information.

37. The system of claim 36 further comprising means for modifying the changeable subject information's content when the message is created.

1 38 The system of claim 34 further comprising means for forwarding the message by
2 forwarding the message to one or more subscribers registered to receive messages having the
3 subject information.

1 39. The system of claim 38 further comprising means for storing information relating to the
2 one or more registered subscribers into a database.

1 40. The system of claim 39 further comprising means for storing a copy of the database's
2 content into a remote memory device.

1 41. The system of claims 34 further comprising means for allowing a user to view the
2 message's configuration information that includes a plurality of subject elements.

1 42. The system of claim 41 further comprising means for providing at least one of variable
2 name and type to be a part of each of the plurality of subject elements.

1 43. The system of claim 41 further comprising means for allowing the user to publish a
2 portion of the message determined by the configuration information.

1 44. The system of claim 41 further comprising means for allowing the user to include a part
2 of the configuration information as a portion of the subject information.

1 45. A method of sending messages in a distributed data processing network, the method
2 comprising the steps of:

- 3 (1) creating a message having subject information;
- 4 (2) generating the subject information based on one or more pre-selected portions,
- 5 as the message is being created; and

6 (3) forwarding the message based on the subject information.

1 46. The method of claim 45 wherein the step of forwarding the message comprises the step
2 of:

3 guaranteeing delivery of the message to a subscriber registered to receive messages
4 having the subject information.

1 47. The method of claim 45 wherein the subject information is generated by the step of:
2 appending a changeable portion to a fixed portion of the subject information.

1 48. The method of claim 47 further comprising the step of:
2 modifying the changeable subject information's content when the message is created.

1 49. The method of claim 45 wherein the step of forwarding the message comprises the step
2 of:
3 forwarding the message to one or more subscribers registered to receive messages having
4 the subject information.

1 50. The method of claim 49 further comprising the step of:
2 storing information relating to the one or more registered subscribers into a database.

1 51. The method of claim 50 further comprising the step of:
2 storing a copy of the database's content into a remote memory device.

1 52. The method of claim 45 further comprising the step of:
2 allowing a user to view the message's configuration information that includes a plurality
3 of subject elements.

1 53. The method of claim 52 further comprising the step of:
 2 providing at least one of variable name and type to be a part of each of the plurality of
 3 subject elements.

1 54. The method of claim 52 further comprising the step of:
 2 allowing the user to publish a portion of the message determined by the
 3 configuration information.

1 55. The method of claim 52 further comprising the step of:
 2 allowing the user to include a part of the configuration information as a portion of the
 3 subject information.

1 56. A message delivery system in a client-server environment, comprising:
 2 (1) a publisher client configured to create a message having subject information and
 3 configured to generate the subject information based on one or more pre-selected portions, as
 4 the message is being created; and
 5 (2) a server configured to forward the message based on the subject information.

1 57. The system of claim 56 wherein the server is further configured to guarantee delivery of
 2 the message to a subscriber registered to receive messages having the subject information.

1 58. The system of claim 56 wherein the publisher client is further configured to generate the
 2 subject information by appending a changeable portion to a fixed portion of the subject
 3 information.

1 59. The system of claim 58 wherein the publisher client is further configured to modify the
 2 changeable subject information's content when the message is created.

1 60. The system of claim 56 wherein the server is further configured to forward the message
2 to one or more subscribers registered to receive messages having the subject information.

1 61. The system of claim 60 wherein the server is further configured to store information
2 relating to the one or more registered subscribers into a database.

1 62. The system of claim 61 further the server is further configured to store a copy of the
2 database's content into a remote memory device.

1 63. The system of claim 56 further comprising a meta-data server configured to allow a user
2 to view the message's configuration information that includes a plurality of subject elements.

1 64. The system of claim 63 wherein the meta-data server is further configured to provide at
2 least one of variable name and type to be a part of each of the plurality of subject elements.

1 65. The system of claim 63 wherein the meta-data server is further configured to allow the
2 user to publish a portion of the message determined by the configuration information.

1 66. The system of claim 63 wherein the meta-data server is further configured to allow the
2 user to include a part of the configuration information as a portion of the subject information.

1 67. A message delivery system in a semiconductor assembly line facility, comprising:
2 (1) a publisher client configured to create a message having subject information and
3 configured to generate the subject information based on one or more pre-selected portions, as
4 the message is being created; and
5 (2) a server configured to forward the message based on the subject information.

1 68. The system of claim 67 wherein the publisher client is configured to operate with one or
2 more assembly line devices and configured to generate one or more messages.

1 69. The system of claim 67 wherein the assembly line device is an etcher configured to etch
2 one or more layers of a substrate during manufacture of an electronic device in the assembly line
3 facility.

1 70. The system of claim 67 wherein the assembly line device is a depositor configured to
2 deposit one or more layers on a substrate during manufacture of an electronic device in the
3 assembly line facility.

1 71. The system of claim 67 wherein the server is further configured to operate within a
2 controller computer configured to receive the messages generated by the publisher clients.

1 72. The system of claim 71 wherein the server is further configured to create a command
2 based on the messages received from the publisher clients.

1 73. The system of claim 67 wherein the server is further configured to guarantee delivery of
2 the message to a subscriber client registered to receive messages having the subject information.

1 74. The system of claim 67 wherein the publisher client is further configured to generate the
2 subject information by appending a changeable portion to a fixed portion of the subject
3 information.

1 75. The system of claim 74 wherein the publisher client is further configured to modify the
2 changeable subject information's content when the message is created.

1 76. The system of claim 67 wherein the server is further configured to forward the message
2 to one or more subscribers registered to receive messages having the subject information.

1 77. The system of claim 76 wherein the server is further configured to store information
2 relating to the one or more registered subscribers into a database.

1 78. The system of claim 77 further the server is further configured to store a copy of the
2 database's content into a remote memory device.

1 79. The system of claim 67 further comprising a meta-data server configured to allow a user
2 to view the message's configuration information that includes a plurality of subject elements.

1 80. The system of claim 79 wherein the meta-data server is further configured to provide at
2 least one of variable name and type to be a part of each of the plurality of subject elements.

1 81. The system of claim 79 wherein the meta-data server is further configured to allow the
2 user to publish a portion of the message determined by the configuration information.

1 82. The system of claim 79 wherein the meta-data server is further configured to allow the
2 user to include a part of the configuration information as a portion of the subject information.